Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 Information

Bradley County	TNS077771
Name of MS4	MS4 Permit Number
Tony Knight	tknight@bradleyco.net
Name of Contact Person	Email Address
423-728-7102	
Telephone (including area code)	
155 Broad Street NW	
Mailing Address	
Cleveland	Tennessee 37311
City	State ZIP code

What is the current population of your MS4? 25492

What is the reporting period for this annual report? From 07/01/2013 to 06/30/2014

2. Water Quality Priorities (Section 3.1)

A. Does your MS4 discharge into waters listed as impaired on TN's most current 303(d) list and/or according to the on-line GIS mapping tool? ☒ Yes ☐ No

B. If yes, please attach a list all impaired waters within your jurisdictional area.

C. Does your MS4's jurisdictional area contain any waterbodies where a TMDL has been approved for parameters other than pathogens, siltation and habitat alterations? If yes, please attach a list. ☐ Yes ☒ No

D. Does your MS4 discharge to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWs)? If yes, please attach a list. ☒ Yes ☐ No

E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWS located within your jurisdiction? ☒ Yes ☐ No

3. Protection of State or Federally Listed Species (Section 3.2.1 General Permit for Phase II MS4s)

A. Are there any state or federally listed species within the MS4's jurisdiction? ☐ Yes ☒ No

B. Are any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species? ☐ Yes ☒ No

C. Please attach any authorizations or determinations by U.S. Fish & Wildlife Service on the effect of the MS4 discharges on state or federally listed species.

4. Public Education and Public Participation (Section 4.2.1 and 4.2.2)

A. Have you developed a Public Information and Education plan (PIE)? ☒ Yes ☐ No

B. Is your public education program targeting specific pollutants and sources of those pollutants, such as Hot Spots? ☒ Yes ☐ No

C. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program? oils, chemicals, sediment, drugs

D. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period. Contractors are installing the correct erosion control , correctly and the land is being disturbed at a minimum

E. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? ☒ Yes ☐ No

F. How do you facilitate, advertise, and publicize public involvement and participation opportunities? Partnership with KAB, TAB and Cleveland State Green Days

G. Do you have a webpage dedicated to your stormwater program? ☒ Yes ☐ No

If so, what is the link/URL: Bradleyco.net/stormwater

H. Are you tracking and maintaining records of public education, outreach, involvement and participation activities? Please attach a summary of these activities. ☒ Yes ☐ No

5. Illicit Discharge Detection and Elimination (Section 4.2.3)

A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? ☐ Yes ☒ No

B. Have you completed a map of all storm drain pipes of storm sewer system? ☒ Yes ☐ No

C. How many outfalls have you identified in your system? 9063

D. Have any of these outfalls been screened for dry weather discharges? ☐ Yes ☒ No

F. What is your frequency for screening outfalls for illicit discharges? Once every 5 years or if a complaint

G. Do you have an ordinance that effectively prohibits illicit discharges? ☒ Yes ☐ No

H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 31

I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? All

6. Construction Site Stormwater Runoff (Section 4.2.4)

A. Do you have an ordinance or adopted policies stipulating:

Erosion and sediment control requirements? ☒ Yes ☐ No

Other construction waste control requirements? ☒ Yes ☐ No

Requirement to submit construction plans for review? ☒ Yes ☐ No

MS4 enforcement authority? ☒ Yes ☐ No

B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 4 that were at least 1 acre

C. How many of these active sites did you inspect this reporting period? 4

D. On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)? bi-monthly

E. Do you prioritize certain construction sites for more frequent inspections? ☒ Yes ☐ No

If Yes, based on what criteria? proximity to waterbodys

7. Permanent Stormwater Controls (Section 4.2.5)

A. Do you have an ordinance or other mechanism to require:

Site plan reviews of all new and re-development projects?	☒ Yes	☐ No
Maintenance of stormwater management controls?	☒ Yes	☐ No
Retrofitting of existing BMPs with green infrastructure BMPs?	☐ Yes	☒ No

B What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.)all projects

C. Have you implemented and enforced performance standards for permanent stormwater controls? ☒ Yes ☐ No

D. Do these performance standards go beyond the requirements found in Section 4.2.5.2 and require that pre-development hydrology be met for:

Flow volumes	☐ Yes	☒ No
Peak discharge rates	☐ Yes	☒ No
Discharge frequency	☐ Yes	☒ No
Flow duration	☐ Yes	☒ No

E. Please provide the URL/reference where all permanent stormwater management standards can be found.

www.bradleyco.net/stormwater

F. How many development and redevelopment project plans were reviewed for this reporting period? 1

G. How many development and redevelopment project plans were approved? 1

H. How many permanent stormwater management practices/facilities were inspected? 127

I. How many were found to have inadequate maintenance? 32

J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) 32

K. How many enforcement actions were taken that address inadequate maintenance?0.0

L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? ☒ Yes ☐ No

M. Do all municipal departments and/or staff (as relevant) have access to this tracking system? ☒ Yes ☐ No

N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites? ☐ Yes ☒ No

O. How many maintenance agreements has the MS4 approved during the reporting period? none

8. Codes and Ordinances Review and Update (Section 4.2.5.3)

A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report? ☒ Yes ☐ No

B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management.The included copy is a draft update. Once finalized, a copy will be forwarded

9. Stormwater Management for Municipal Operations (Section 4.2.6)

A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:

All parks, ball fields and other recreational facilities ☒ Yes ☐ No

All municipal turf grass/landscape management activities ☒ Yes ☐ No

All municipal vehicle fueling, operation and maintenance activities ☒ Yes ☐ No

All municipal maintenance yards ☒ Yes ☐ No

All municipal waste handling and disposal areas ☒ Yes ☐ No

B. Are stormwater inspections conducted at these facilities? ☒ Yes ☐ No

1. If Yes, at what frequency are inspections conducted? yearly

C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.) ☒ Yes ☐ No

D. Do you have a prioritization system for storm sewer system and permanent BMP inspections? ☒ Yes ☐ No

E. On average, how frequently are catch basins and other inline treatment systems inspected? yearly

F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? yearly or if have complaint

G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management? ☒ Yes ☐ No

H. If yes, do you also provide regular updates and refreshers? ☒ Yes ☐ No

If so, how frequently and/or under what circumstances? twice a year during safety meetings

10. Stormwater Management Program Update (Section 4.4)

A. Describe any changes to the MS4 program during the reporting period including but not limited to:

Changes adding (but not subtracting or replacing) components, controls or other requirements (Section 4.4.2.a). Modifications to Bradley County Stormwater Policy

Changes to replace an ineffective or unfeasible BMP (Section 4.4.2.b). No

Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. at this time no change in our UA

Changes to the program as required by the division (Section 4.4.3). No

11. Evaluating/Measuring Progress

A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
Example: E. coli	*2003*	*Weekly April–September*	*20*

B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. _____

12. ENFORCEMENT (SECTION 4.5)

A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Action	Construction	Permanent Stormwater Controls	Illicit Discharge	Authority?	
Notice of violation	#4	#0	#4	☒ Yes	☐ No
Administrative fines	#0	#0	#0	☒ Yes	☐ No
Stop Work Orders	#0	#0	#0	☒ Yes	☐ No
Civil penalties	#0	#0	#10	☒ Yes	☐ No
Criminal actions	#0	#0	#0	☒ Yes	☐ No
Administrative orders	#0	#0	#0	☒ Yes	☐ No
Other 0	#0	#0	#0		

B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction? ☒ Yes ☐ No

C. What are the 3 most common types of violations documented during this reporting period? driveway discharge, improper erosion control, construction entrances not maintained

13. PROGRAM RESOURCES (OPTIONAL)

A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? 228,744

B. What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? 237,787

C. Do you have an independent financing mechanism for your stormwater program? ☐ Yes ☒ No

D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?

Source: N/A Amount $N/A

Source: N/A Amount $N/A

E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 2

F. Do you share program implementation responsibilities with any other entities? ☐ Yes ☒ No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism

G. Please attach a copy of your Organizational Chart

14. CERTIFICATION

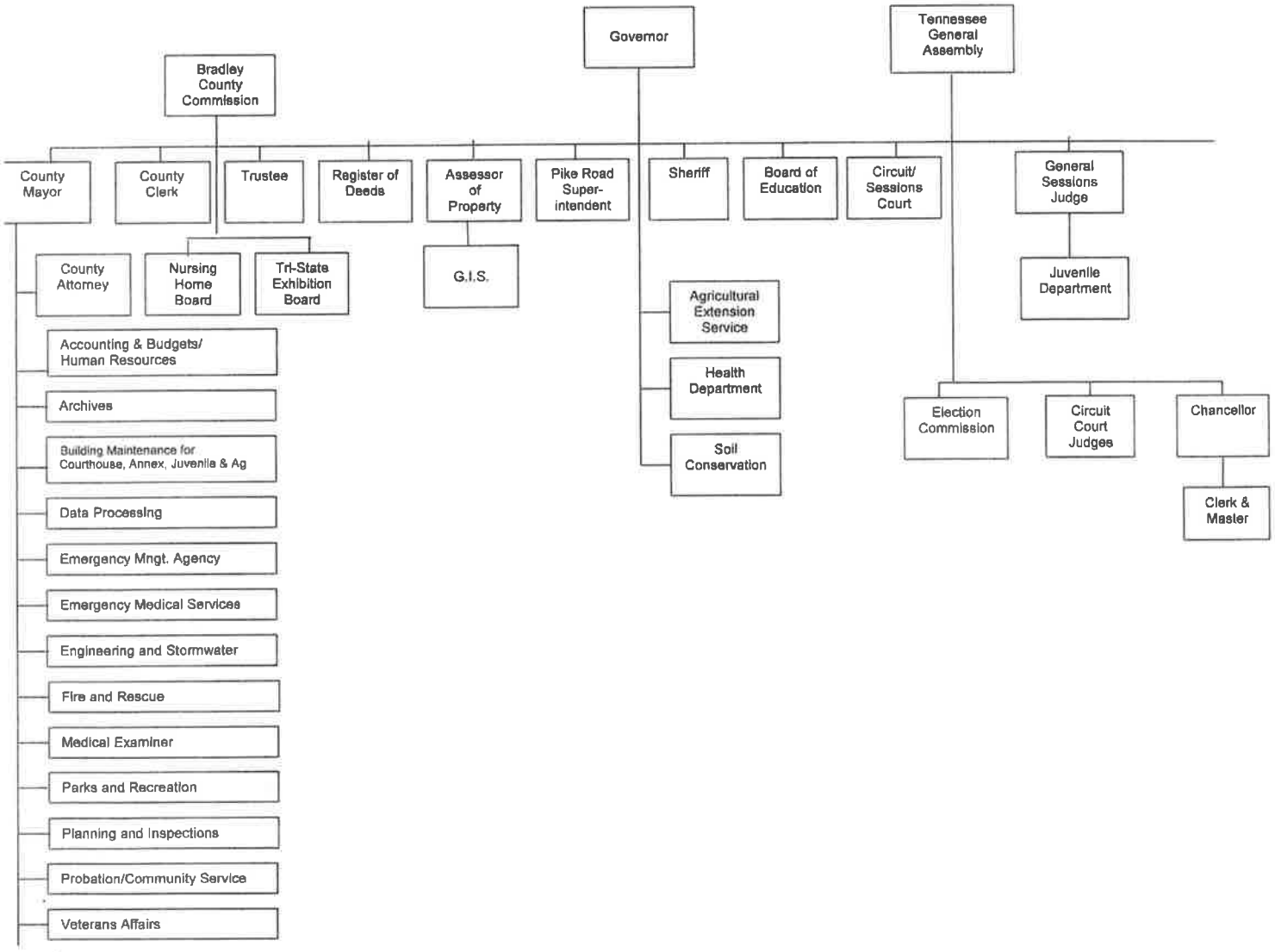
This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

Printed Name and Title _____ Signature _____ Date _____

Annual reports must be submitted in accordance with the requirements of Section 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000


Governor
Tennessee General Assembly
Bradley County Commission
County Mayor
County Clerk
Trustee
Register of Deeds
Assessor of Property
Pike Road Super-intendent
Sheriff
Board of Education
Circuit/ Sessions Court
General Sessions Judge
County Attorney
Nursing Home Board
Tri-State Exhibition Board
G.I.S.
Juvenile Department
Accounting & Budgets/ Human Resources
Archives
Building Maintenance for Courthouse, Annex, Juvenile & Ag
Data Processing
Emergency Mngt. Agency
Emergency Medical Services
Engineering and Stormwater
Fire and Rescue
Medical Examiner
Parks and Recreation
Planning and Inspections
Probation/Community Service
Veterans Affairs
Agricultural Extension Service
Health Department
Soil Conservation
Election Commission
Circuit Court Judges
Chancellor
Clerk & Master

Hiwassee River This basin contains the following USGS Hydrologic Unit Codes: 06020002 (Hiwassee River).

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020002 001 - 0100	AGENCY CREEK	Meigs	18.46	Escherichia coli	NA	Pasture Grazing	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06020002 001 - 0200	GUNSTOCKER CREEK	Meigs Bradley Hamilton	25.0	Escherichia coli Alteration in stream-side or littoral vegetative cover	M M	Pasture Grazing	Category 5. TMDLs needed.
TN06020002 001 - 2000	HIWASSEE RIVER EMBAYMENT OF CHICKAMAUGA RESERVOIR	Meigs McMinn Bradley	3130 ac	Mercury	L	Atmospheric Deposition Industrial Point Source	Fishing advisory due to mercury in largemouth bass. Category 5. Assistance requested for atmospheric deposition TMDLs.
TN06020002 002 - 0100	SUGAR CREEK	Meigs Bradley	9.0	Escherichia coli Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Total Phosphorus Low Dissolved Oxygen	H L L M L	Pasture Grazing Channelization	Category 5. TMDLs needed.
TN06020002 005 - 0100	BLACK FOX CREEK	Bradley	19.55	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover Escherichia coli	NA NA H	Pasture Grazing	Category 5. EPA approved siltation and habitat alteration TMDLs that address some of the known pollutants.
TN06020002 005 - 1000	CANDIES CREEK	Bradley	9.65	Loss of biological integrity due to siltation Escherichia coli	NA H	Discharges from MS4 area Pasture Grazing	Category 5. EPA approved a siltation TMDL that addresses some of known pollutants.
TN06020002 005 - 1100	BEAVERDAM BRANCH	Bradley	3.07	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover Escherichia coli	NA NA H	Pasture Grazing	Stream is Category 5. EPA approved siltation and habitat alteration TMDLs that address some of the known pollutants.
TN06020002 005 - 1200	UNNAMED TRIB TO CANDIES CREEK	Bradley	1.55	Physical Substrate Habitat Alterations Loss of biological integrity due to siltation	NA NA	Pasture Grazing	Category 4a. EPA approved siltation and habitat alteration TMDLs that address the known pollutants..

Final Version 2012 303(d) LIST (Hiwassee River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020002 005 - 1300	UNNAMED TRIB TO CANDIES CREEK	Bradley	0.95	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	NA NA H	Pasture Grazing	Stream is Category 5, Impaired, but EPA approved siltation and habitat alteration TMDLs that address some of the known pollutants.
TN06020002 005 - 1400	UNNAMED TRIB TO CANDIES CREEK	Bradley	1.14	Loss of biological integrity due to siltation	NA	Undetermined Source	Category 4a. Impaired, but EPA has approved a siltation TMDL that addresses the known pollutants.
TN06020002 005 - 2000	CANDIES CREEK	Bradley	16.32	Physical Substrate Habitat Alterations Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover Escherichia coli	NA NA NA H	Discharges from MS4 area Pasture Grazing Streambank Modifications Land Development	Category 5. Impaired, but EPA has approved siltation and habitat alteration TMDLs that address some of the known pollutants.
TN06020002 005 - 3000	CANDIES CREEK	Bradley	9.51	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover Escherichia coli	NA NA H	Pasture Grazing	Category 5. EPA approved a siltation/habitat alteration TMDL that addresses some of the known pollutants.
TN06020002 008 - 0100	BACON BRANCH	Bradley	3.36	Escherichia coli	H	Concentrated Animal Feeding Operation (CAFO) Animal Feeding Operations	Category 5. TMDL needed.
TN06020002 008 – 1000	HIWASSEE RIVER EMBAYMENT OF CHICKAMAUGA RESERVOIR	Bradley McMinn	1050 ac	Escherichia coli Mercury	NA L	Undetermined Source Industrial Point Source Atmospheric Deposition	Fishing advisory due to mercury. Category 5. EPA has approved a pathogen TMDL and should assist on the mercury TMDL.
TN06020002 008 – 2000	HIWASSEE RIVER EMBAYMENT OF CHICKAMAUGA RESERVOIR	Bradley McMinn	505 ac	Mercury	L	Industrial Point Source Atmospheric Deposition	Fishing advisory due to mercury. Category 5. EPA should assist on the mercury atmospheric deposition TMDL.
TN06020002 009 - 0100	LITTLE SOUTH MOUSE CREEK	Bradley	7.3	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation	NA NA	Pasture Grazing Channelization	Category 4a. EPA approved siltation and habitat alteration TMDLs that address the known pollutants.

Final Version 2012 303(d) LIST (Hiwassee River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020002 009 - 0200	FILLAUER CREEK	Bradley	7.4	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	NA NA NA	Discharges from MS4 area Collection System Failure	Category 4a. Impaired, but EPA approved pathogen, siltation and habitat alteration TMDLs that address the known pollutants.
TN06020002 009 - 0300	WOOLEN MILL BRANCH	Bradley	3.92	Low Dissolved Oxygen Alteration in stream-side or littoral vegetative cover Nutrients Escherichia coli	L NA M NA	Discharges from MS4 area Industrial Stormwater Discharges Collection System Failure	Multiple fish kills due to sewage overflows. Category 5. EPA approved pathogen and habitat alteration TMDLs that addresses some of the known pollutants.
TN06020002 009 –1000	SOUTH MOUSE CREEK	Bradley	12.1	Escherichia coli	H	Discharges from MS4 area Pasture Grazing	Category 5.
TN06020002 009 – 2000	SOUTH MOUSE CREEK	Bradley	6.5	Loss of biological integrity due to siltation Physical Substrate Habitat Alterations Escherichia coli	NA NA NA	Discharges from MS4 area Collection System Failure Channelization	Category 4a. EPA approved pathogen, siltation and habitat alteration TMDLs that address the known pollutants.
TN06020002 012 – 0200	LITTLE CHATATA CREEK	Bradley	14.3	Loss of biological integrity due to siltation Alteration in stream-side or littoral vegetative cover Escherichia coli	NA NA NA	Discharges from MS4 area Pasture Grazing Animal Feeding Operations	Category 4a. Impaired, but EPA has approved pathogen, siltation and habitat alteration TMDLs that address the known pollutants.
TN06020002 012 – 1000	CHATATA CREEK	Bradley	19.62	Loss of biological integrity due to siltation Physical Substrate Habitat Alterations Escherichia coli	NA NA NA	Discharges from MS4 area Pasture Grazing Animal Feeding Operations	Category 4a. Impaired, but EPA has approved pathogen, siltation and habitat alteration TMDLs that address the known pollutants.
TN06020002 014 – 0100	LITTLE SOUTH CHESTUEE CREEK	Bradley Polk	10.61	Loss of biological integrity due to siltation	M	Pasture Grazing	Category 5. TMDL needed.
TN06020002 014 – 1000	SOUTH CHESTUEE CREEK	Bradley	8.77	Escherichia coli	H	Pasture Grazing	Category 5. TMDL needed.
TN06020002 014 – 2000	SOUTH CHESTUEE CREEK	Bradley	9.81	Total Phosphorus Loss of biological integrity due to siltation Escherichia coli	M L H	Pasture Grazing	Category 5. TMDL needed.
TN06020002 018 – 0100	HAWKINS BRANCH	Polk	1.86	Escherichia coli	NA	Pasture Grazing	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020002 084 - 2000	NORTH MOUSE CREEK	McMinn	15.61	Total Phosphorus Alteration in stream-side or littoral vegetative cover Escherichia coli	M L NA	Pasture Grazing	Category 5. EPA approved pathogen TMDL that addresses some of the known pollutants.
TN06020002 085 - 1000	SPRING CREEK	McMinn	33.8	Escherichia coli	NA	Pasture Grazing	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN06020002 087 - 1000	ROGERS CREEK	McMinn	21.6	Alteration in stream-side or littoral vegetative cover Escherichia coli	NA NA	Pasture Grazing	Category 4a. EPA approved pathogen and habitat alteration TMDLs that address the known pollutants.
TN06020002 088 - 1000	PRICE CREEK	Meigs	6.9	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	L L NA	Pasture Grazing Channelization	Category 5. EPA approved a pathogen TMDL that addresses some of the known pollutants.

Conasauga River This basin contains the following USGS Hydrologic Unit Codes: 03150101 (Conasauga River).

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN03150101 012 - 0100	SUGAR CREEK	Bradley	12.2	Alteration in stream-side or littoral vegetative cover Loss of biological integrity due to siltation Escherichia coli	L L H	Pasture Grazing Septic Tanks	Category 5. TMDLs needed.
TN03150101 012 - 0200	MILL CREEK	Bradley Polk	20.1	Nitrate+Nitrite Total Phosphorus Escherichia coli	M M NA	Pasture Grazing	Category 5. EPA approved a pathogen TMDL that addresses some of the known pollutants.
TN03150101 012 - 0300	BALL PLAY CREEK	Polk	7.44	Escherichia coli	NA	Pasture Grazing Septic Tanks	Category 4a. EPA approved a pathogen TMDL that addresses the known pollutant.
TN03150101 021 - 0100	MILLS CREEK	Bradley	5.39	Escherichia coli	H	Concentrated Animal Feeding Operation (CAFO) Pasture Grazing	Category 5. TMDL needed.

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE TMDL Priority	Pollutant Source	COMMENTS
TN03150101 021 - 0110	MARROON BRANCH	Bradley	4.88	Alteration in stream-side or littoral vegetative cover L	Pasture Grazing	Category 5. TMDL needed.
TN03150101 021 - 0200	WEATHERLY BRANCH	Bradley	3.98	Escherichia coli H	Pasture Grazing	Category 5. TMDL needed.
TN03150101 021 - 0500	BLACKBURN BRANCH	Bradley	7.5	Alteration in stream-side or littoral vegetative cover L Loss of biological integrity due to siltation L	Pasture Grazing	Category 5. TMDL needed.
TN03150101 021 - 1000	COAHULLA CREEK	Bradley	20.9	Escherichia coli H	Pasture Grazing Discharges from MS4 area	Category 5. TMDL needed.

Ocoee River

This basin contains the following USGS Hydrologic Unit Codes: 06020003 (Ocoee River).

Waterbody ID	Impacted Waterbody	County	Miles/Acres Impaired	CAUSE / TMDL Priority	Pollutant Source	COMMENTS
TN06020003 001 - 0100	FOURMILE CREEK	Polk	4.8	Escherichia coli NA Nitrate+Nitrite M Total Phosphorus M Loss of biological integrity due to siltation L	Pasture Grazing Municipal Point Source	Category 5. EPA approved a pathogen TMDL that addresses some of the known pollutants.
TN06020003 001 – 0200	CLOUD BRANCH	Polk	5.2	Escherichia coli H	Pasture Grazing	Category 5. TMDL needed.
TN06020003 001 - 0300	COOKSON CREEK	Polk	22.4	Escherichia coli H	Pasture Grazing	Category 5. TMDL needed.
TN06020003 001 - 0400	FRY BRANCH	Polk	3.8	Escherichia coli H	Pasture Grazing	Category 5. TMDL needed.
TN06020003 001 - 1000	OCOEE RIVER	Polk	13.0	pH H Zinc H	Mill Tailings Mine Tailings Contaminated Sediments Impacts from Abandoned Mines Upstream Impoundment	Biological integrity criteria not met below Parksville. This stream is Category 5 (impaired for one or more uses).
TN06020003 004 – 1000 & 2000	PARKSVILLE RESERVOIR.	Polk	1280 ac	Copper H Iron H Zinc H Loss of biological integrity due to siltation L	Mill Tailings Mine Tailings Contaminated Sediments Impacts from Abandoned Mines	Parksville Reservoir fishery is improving, but sediment contamination exerts toxic effect. Category 5, impaired for one or more uses.